


DOUBLE-LAYER COATED GRANULAR FERTILIZER

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Abstract

PURPOSE: To obtain the fertilizer controlled in the period for the start of elution by providing an olefinic polymer layer via a high absorption swellable material layer on the surface of the granular fertilizer.
CONSTITUTION: This double-layer coated granular fertilizer is formed by forming a 1st coating layer consisting of the high absorption swellable material layer on the surface of the granular fertilizer and forming a 2nd coating layer consisting of the olefinic polymer on the surface of the 1st coating layer. The high absorption swellable material constituting the 1st coating layer is preferably a material which swells to the volume of ≥ 5 times the dry volume by absorbing water. This material is particularly preferably the material which attains a gelatinous state having the low tendency to dissolving or eluting when the material swells by absorbing the water. The material having a high swelling pressure is more preferable. The double-layer coated granular fertilizer mentioned above is the fertilizer which does not elute the specific fertilizer components before the necessary period is passed over in a hydrous medium or in water and rapidly elutes the fertilizer once the elution is started.

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